Patent Claims

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- 5 1. Device for mixing substances, comprising:
 - a processor unit;
 - a local memory unit to store mixing formulas;
 - a display unit and an input unit operably connected with the processor unit;
 - a measuring device by which portions of substances in quantities determined according to a mixing formula are filled manually or automatically into a container, wherein the processor unit is connected to a communications module for establishing a communications connection wirelessly to a data server via which data of the mixing formulas can be transmitted to the local memory unit and used to control the measuring device.
 - 2. Device according to claim 1, wherein the communications module operates according to at least one mobile radio protocol or/and according to at least one Wireless Local Area Network protocol, and is suitable for establishing communications connections.
 - 3. Device according to claim 2, wherein the connection to the data can be created wirelessly via at least one of a public radio network (PLMN), a wireless local network (W-LAN), and a public communications network (PLMN, PSTN).
 - 4. Device according to claim 3, wherein the connection to the data server takes place via the Internet, and that installed in the processor unit or in the communications module is a browser which operates using at least one of a Wireless Application Protocol (WAP) and a Hypertext Transfer Protocol (HTTP).
 - 5. Device according to claim 1, wherein via the input unit, a mixing formula is selected and called up from the memory unit, and that reference and actual

values, and/or a difference of the reference and actual values, are visualized on the display unit for manual addition of the substances to be mixed.

- 6. Device according to claim 1, wherein the processor unit acts via a drive unit on valves of supply pipes for supplying the substances to the container.
 - 7. Device according to claim 6, wherein, via the input unit, a mixing formula can be selected and called up from the memory unit, and that via the drive unit desired quantities of the substances are filled into the container automatically.

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- 8. Device according to claim 1, wherein the measuring device is a scale into which the processor unit, the memory unit, the display unit, the input unit and the communications module are integrated.
- 9. Device according to claim 1, wherein the display unit and the input unit are combined into one unit.
 - 10. Method of operating a device according to claim 1, wherein the device regularly or as needed creates wireless communication connections to a data server, and on each occasion, up-to-date data of mixing formulas are transmitted to the local memory unit of the device.
 - 11. Method according to claim 10, wherein the data transmitted to the local memory unit includes:
- 25 a) new mixing formulas,
 - b) modifications to existing mixing formulas; and/or
 - c) replacements for existing mixing formulas.
- 12. Method according to claim 10, wherein updating of data in the local memory unit takes place:
 - a) before a start, or after an end, of a mixing process;
 - b) at predefined fixed, or at selectable time intervals;
 - c) in response to manual control, or;

- d) in response to being initiated by the data server.
- 13. Method according to claim 10, wherein a mixing formula selected using the input unit is called up from the memory unit, a respective reference value and an actual value measured by the measuring device and/or a difference of the reference value and the actual value, are visualized on the display unit, and a desired quantity of the substance to be filled is manually filled into the container.
- 14. Method according to claim 10, wherein the processor unit of the device acts via a drive unit on valves of supply pipes to supply the substances to the container, and using the input unit, a mixing formula is selected and called up from the memory unit, and using the drive unit, desired quantities of the substances are filled into the container automatically.
- 15. Device according to claim 1, wherein the substances are coloring substances.
 - 16. Device according to claim 4, wherein via the input unit, a mixing formula is selected and called up from the memory unit, and that reference and actual values and/or a difference of the reference and actual values, are visualized on the display unit for manual addition of the substances to be mixed.
 - 17. Device according to claim 4, wherein the processor unit acts via a drive unit on valves of supply pipes for supplying the substances to the container.

18. Device according to claim 4, wherein the measuring device is a scale into which the processor unit, the memory unit, the display unit, the input unit and the communications module are integrated.

- 30 19. Method according to claim 11, wherein updating of data in the local memory unit takes place:
 - a) before a start, or after an end, of a mixing process;

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b) at predefined fixed, or at selectable time intervals;

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- c) in response to manual control, or;
- d) in response to being initiated by the data server.
- 20. Method according to claim 19, wherein a mixing formula selected using the input unit is called up from the memory unit, a respective reference value and an actual value measured by the measuring device and/or a difference of the reference value and the actual value, are visualized on the display unit, and a desired quantity of the substance to be filled is manually filled into the container.
- 21. Method according to claim 19, wherein the processor unit of the device acts via a drive unit on valves of supply pipes to supply the substances to the container, and using the input unit, a mixing formula is selected and called up from the memory unit, and using the drive unit, desired quantities of the substances are filled into the container automatically.